

Environmental Protection Agency

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TABLE W-1D OF SUBPART W OF PART 98—  
DESIGNATION OF EASTERN AND WESTERN U.S.

Eastern U.S.	Western U.S.
Connecticut .....	Alabama
Delaware .....	Alaska
Florida .....	Arizona
Georgia .....	Arkansas
Illinois .....	California
Indiana .....	Colorado
Kentucky .....	Hawaii
Maine .....	Idaho
Maryland .....	Iowa
Massachusetts .....	Kansas
Michigan .....	Louisiana
New Hampshire .....	Minnesota
New Jersey .....	Mississippi
New York .....	Missouri

TABLE W-1D OF SUBPART W OF PART 98—  
DESIGNATION OF EASTERN AND WESTERN  
U.S.—Continued

Eastern U.S.	Western U.S.
North Carolina .....	Montana
Ohio .....	Nebraska
Pennsylvania .....	Nevada
Rhode Island .....	New Mexico
South Carolina .....	North Dakota
Tennessee .....	Oklahoma
Vermont .....	Oregon
Virginia .....	South Dakota
West Virginia .....	Texas
Wisconsin .....	Utah
.....	Washington
.....	Wyoming

TABLE W-2 OF SUBPART W—DEFAULT TOTAL HYDROCARBON EMISSION FACTORS FOR  
ONSHORE NATURAL GAS PROCESSING

Onshore natural gas processing plants	Emission factor (scf/hour/ component)
<b>Leaker Emission Factors—Compressor Components, Gas Service</b>	
Valve <sup>1</sup> .....	14.84
Connector .....	5.59
Open-Ended Line .....	17.27
Pressure Relief Valve .....	39.66
Meter .....	19.33
<b>Leaker Emission Factors—Non-Compressor Components, Gas Service</b>	
Valve <sup>1</sup> .....	6.42
Connector .....	5.71
Open-Ended Line .....	11.27
Pressure Relief Valve .....	2.01
Meter .....	2.93

<sup>1</sup> Valves include control valves, block valves and regulator valves.

[76 FR 80592, Dec. 23, 2011]

TABLE W-3 OF SUBPART W—DEFAULT TOTAL HYDROCARBON EMISSION FACTORS FOR  
ONSHORE NATURAL GAS TRANSMISSION COMPRESSION

Onshore natural gas transmission compression	Emission factor (scf/hour/ component)
<b>Leaker Emission Factors—Compressor Components, Gas Service</b>	
Valve <sup>1</sup> .....	14.84
Connector .....	5.59
Open-Ended Line .....	17.27
Pressure Relief Valve .....	39.66
Meter .....	19.33
<b>Leaker Emission Factors—Non-Compressor Components, Gas Service</b>	
Valve <sup>1</sup> .....	6.42
Connector .....	5.71
Open-Ended Line .....	11.27
Pressure Relief Valve .....	2.01
Meter .....	2.93
<b>Population Emission Factors—Gas Service</b>	
Low Continuous Bleed Pneumatic Device Vents <sup>2</sup> .....	1.37
High Continuous Bleed Pneumatic Device Vents <sup>2</sup> .....	18.20

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Onshore natural gas transmission compression	Emission factor (scf/hour/ component)
Intermittent Bleed Pneumatic Device Vents <sup>2</sup> .....	2.35

<sup>1</sup> Valves include control valves, block valves and regulator valves.<sup>2</sup> Emission Factor is in units of "scf/hour/device."

[76 FR 80593, Dec. 23, 2011]

TABLE W-4 OF SUBPART W—DEFAULT TOTAL HYDROCARBON EMISSION FACTORS FOR UNDERGROUND NATURAL GAS STORAGE

Underground natural gas storage	Emission factor (scf/hour/ component)
<b>Leaker Emission Factors—Storage Station, Gas Service</b>	
Valve <sup>1</sup> .....	14.84
Connector .....	5.59
Open-Ended Line .....	17.27
Pressure Relief Valve .....	39.66
Meter .....	19.33
<b>Population Emission Factors—Storage Wellheads, Gas Service</b>	
Connector .....	0.01
Valve .....	0.1
Pressure Relief Valve .....	0.17
Open Ended Line .....	0.03
<b>Population Emission Factors—Other Components, Gas Service</b>	
Low Continuous Bleed Pneumatic Device Vents <sup>2</sup> .....	1.37
High Continuous Bleed Pneumatic Device Vents <sup>2</sup> .....	18.20
Intermittent Bleed Pneumatic Device Vents <sup>2</sup> .....	2.35

<sup>1</sup> Valves include control valves, block valves and regulator valves.<sup>2</sup> Emission Factor is in units of "scf/hour/device."

[76 FR 80593, Dec. 23, 2011]

TABLE W-5 OF SUBPART W—DEFAULT METHANE EMISSION FACTORS FOR LIQUEFIED NATURAL GAS (LNG) STORAGE

LNG storage	Emission factor (scf/hour/ component)
<b>Leaker Emission Factors—LNG Storage Components, LNG Service</b>	
Valve .....	1.19
Pump Seal .....	4.00
Connector .....	0.34
Other <sup>1</sup> .....	1.77
<b>Population Emission Factors—LNG Storage Compressor, Gas Service</b>	
Vapor Recovery Compressor .....	4.17

<sup>1</sup> "Other" equipment type should be applied for any equipment type other than connectors, pumps, or valves.<sup>2</sup> Emission Factor is in units of "scf/hour/device."

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TABLE W-6 OF SUBPART W—DEFAULT METHANE EMISSION FACTORS FOR LNG IMPORT AND EXPORT EQUIPMENT

LNG import and export equipment	Emission factor (scf/hour/ component)
<b>Leaker Emission Factors—LNG Terminals Components, LNG Service</b>	
Valve .....	1.19